# CONSORT-EHEALTH (V 1.6.1) - Submission/Publication Form

The CONSORT-EHEALTH checklist is intended for authors of randomized trials evaluating web-based and Internet-based applications/interventions, including mobile interventions, electronic games (incl multiplayer games), social media, certain telehealth applications, and other interactive and/or networked electronic applications. Some of the items (e.g. all subitems under item 5 - description of the intervention) may also be applicable for other study designs.

The goal of the CONSORT EHEALTH checklist and guideline is to be

- a) a guide for reporting for authors of RCTs,
- b) to form a basis for appraisal of an ehealth trial (in terms of validity)

CONSORT-EHEALTH items/subitems are MANDATORY reporting items for studies published in the Journal of Medical Internet Research and other journals / scientific societies endorsing the checklist.

Items numbered 1., 2., 3., 4a., 4b etc are original CONSORT or CONSORT-NPT (non-pharmacologic treatment) items.

Items with Roman numerals (i., ii, iii, iv etc.) are CONSORT-EHEALTH extensions/clarifications.

As the CONSORT-EHEALTH checklist is still considered in a formative stage, we would ask that you also RATE ON A SCALE OF 1-5 how important/useful you feel each item is FOR THE PURPOSE OF THE CHECKLIST and reporting guideline (optional).

Mandatory reporting items are marked with a red \*.

In the textboxes, either copy & paste the relevant sections from your manuscript into this form - please include any quotes from your manuscript in QUOTATION MARKS, or answer directly by providing additional information not in the manuscript, or elaborating on why the item was not relevant for this study.

YOUR ANSWERS WILL BE PUBLISHED AS A SUPPLEMENTARY FILE TO YOUR PUBLICATION IN JMIR AND ARE CONSIDERED PART OF YOUR PUBLICATION (IF ACCEPTED).

Please fill in these questions diligently. Information will not be copyedited, so please use proper spelling and grammar, use correct capitalization, and avoid abbreviations.

DO NOT FORGET TO SAVE AS PDF \_AND\_ CLICK THE SUBMIT BUTTON SO YOUR ANSWERS ARE IN OUR DATABASE !!!

Citation Suggestion (if you append the pdf as Appendix we suggest to cite this paper in the caption):

Eysenbach G, CONSORT-EHEALTH Group

CONSORT-EHEALTH: Improving and Standardizing Evaluation Reports of Web-based and

Mobile Health Interventions	
J Med Internet Res 2011;13(4):e126	
URL: http://www.jmir.org/2011/4/e126/	
doi: 10.2196/jmir.1923 PMID: 22209829	
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Your name *	
First Last	
Stephen Bonasera	
Primary Affiliation (short), City, Country *	
University of Toronto, Toronto, Canada	
University of Nebraska Me	
Your e-mail address *	
abc@gmail.com	
sbonasera@unmc.edu	
Title of your manuscript *	
Provide the (draft) title of your manuscript.	
Smartphones measure activity, step count and gait speed in older	
ambulatory adults in a naturalistic setting	
Article Preparation Status/Stage *	
At which stage in your article preparation are you currently (at the time you fi	ll in this form)
onot submitted yet - in early draft status	
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not submitted vet - in late draft status, just before submission	
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o no ms nu	mber (yet) / not (yet) submitted to / published in JMIR
Other: 5	090
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1a) Does yo	our paper address CONSORT item 1a? *
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"other")	title contain the phrase "Randomized Controlled Trial"? (if not, explain the reason under
"other") O yes	
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"other")  yes  Other: T  1a-i) Identif Identify the r in the title. A Intervention "electronic" o worlds). Use product name	title contain the phrase "Randomized Controlled Trial"? (if not, explain the reason under he study is not a random

3 of 45 11/10/16, 3:45 PM

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Does your paper address subitem 1a-i? \*

your study		
"Smartphones measu	re"	
a-ii) Non-web-based	components or important co-interventions in title	
	components or important co-interventions in title, if any (e.g., "with	
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Copy and paste relevant sections from manuscript title (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

" in older ambulatory adults in a naturalistic setting"

## 1b) ABSTRACT: Structured summary of trial design, methods, results, and conclusions

NPT extension: Description of experimental treatment, comparator, care providers, centers, and blinding status.

### 1b-i) Key features/functionalities/components of the intervention and comparator in the METHODS section of the ABSTRACT

Mention key features/functionalities/components of the intervention and comparator in the abstract. If possible, also mention theories and principles used for designing the site. Keep in mind the needs of systematic reviewers and indexers by including important synonyms. (Note: Only report in the abstract what the main paper is reporting. If this information is missing from the main body of text, consider adding it)

	1	2	3	4	5	
subitem not at all important	0	0	0	0	0	essential

#### Does your paper address subitem 1b-i? \*

Copy and paste relevant sections from the manuscript abstract (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

"A total of 40 ambulatory, independently dwelling older adults were recruited from Nebraska Medicine, including 22 healthy control individuals from our Engage Wellness Center and 18 frail individuals from our ambulatory Geriatrics Clinic. Previously-validated surveys (Late Life Function and Disability Instrument (LLFDI), Survey of Activities and Fear of Falling in the Elderly (SAFFE), Patient Reported Outcomes Measurement Information System (PROMIS) short form version 1.0 Physical Function 10a, and PROMIS Global

#### 1b-ii) Level of human involvement in the METHODS section of the ABSTRACT

Clarify the level of human involvement in the abstract, e.g., use phrases like "fully automated" vs. "therapist/nurse/care provider/physician-assisted" (mention number and expertise of providers involved, if any). (Note: Only report in the abstract what the main paper is reporting. If this information is missing from the main body of text, consider adding it)

1 2 3 4 5 subitem not at all important 0 0 0 essential

#### Does your paper address subitem 1b-ii?

Copy and paste relevant sections from the manuscript abstract (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

"A total of 40 ambulatory, independently dwelling older adults were recruited from Nebraska Medicine, including 22 healthy control individuals from our Engage Wellness Center and 18 frail individuals from our ambulatory Geriatrics Clinic."

Abstract describes subjects receiving both validated questionnaires, a physical performance battery, and smartphone-based ambulatory monitoring to determine functional status.

### 1b-iii) Open vs. closed, web-based (self-assessment) vs. face-to-face assessments in the METHODS section of the ABSTRACT

Mention how participants were recruited (online vs. offline), e.g., from an open access website or from a clinic or a closed online user group (closed usergroup trial), and clarify if this was a purely web-based trial, or there were face-to-face components (as part of the intervention or for assessment). Clearly say if outcomes were self-assessed through questionnaires (as common in web-based trials). Note: In traditional offline trials, an open trial (open-label trial) is a type of clinical trial in which both the researchers and participants know which treatment is being administered. To avoid confusion, use "blinded" or "unblinded" to indicated the level of blinding instead of "open", as "open" in web-based trials usually refers to "open access" (i.e. participants can self-enrol). (Note: Only report in the abstract what the main paper is reporting. If this information is missing from the main body of text, consider adding it)

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subitem not at all important O O O essential

#### Does your paper address subitem 1b-iii?

Copy and paste relevant sections from the manuscript abstract (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

See above. Questionnaires and physical performance batteries	
constitute the face-to-face assessments; smartphone-based	
ambulatory monitoring is an automated assessment not requiring	
immediate investigator management.	

#### 1b-iv) RESULTS section in abstract must contain use data

Report number of participants enrolled/assessed in each group, the use/uptake of the intervention (e.g., attrition/adherence metrics, use over time, number of logins etc.), in addition to primary/secondary outcomes. (Note: Only report in the abstract what the main paper is reporting. If this information is missing from the main body of text, consider adding it)



#### Does your paper address subitem 1b-iv?

Copy and paste relevant sections from the manuscript abstract (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

"We identified statistically significant differences between control and frail subjects in percent activity (p<0.0018, t-test), active vs. inactive status (p<0.0195, t-test), average step counts (p<0.001, t-test) and gait speed (p<0.001, one-way ANOVA). Overall, both internal correlations (within individual questionnaires and the performance battery) and correlations between questionnaire/physical performance battery were greater in functionally intact compared to frail older adults."

#### 1b-v) CONCLUSIONS/DISCUSSION in abstract for negative trials

Conclusions/Discussions in abstract for negative trials: Discuss the primary outcome - if the trial is negative (primary outcome not changed), and the intervention was not used, discuss whether negative results are attributable to lack of uptake and discuss reasons. (Note: Only report in the abstract what the main paper is reporting. If this information is missing from the main body of text, consider adding it)



#### Does your paper address subitem 1b-v?

Copy and paste relevant sections from the manuscript abstract (include quotes in quotation marks

"like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

This was not a negative trial.

"Continuous smartphone-based measures of subject community activity and mobility strongly differentiate between persons with intact functional status and persons with a frailty phenotype. These measures assess dimensions of functional status independent of those measured using current validated questionnaires and physical performance assessments to identify functional compromise.

#### INTRODUCTION

## 2a) In INTRODUCTION: Scientific background and explanation of rationale

#### 2a-i) Problem and the type of system/solution

Describe the problem and the type of system/solution that is object of the study: intended as stand-alone intervention vs. incorporated in broader health care program? Intended for a particular patient population? Goals of the intervention, e.g., being more cost-effective to other interventions, replace or complement other solutions? (Note: Details about the intervention are provided in "Methods" under 5)

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subitem not at all important	0	0	0	0	0	essential

#### Does your paper address subitem 2a-i? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

"The rise of ubiquitous electronics offers great potential for remote monitoring of patient health parameters. We have shown the feasibility of using cell phone technology to measure an individual's activity and lifespace (e.g., the geographic expanse of an individual's day-to-day travels) over prolonged periods of time in a noninvasive, near-continuous, robust, inexpensive, and user friendly manner [11]. In order to extrapolate health parameters (aligned with Healthy People 2010, [12]) from our subject derived smartphone data, we

#### 2a-ii) Scientific background, rationale: What is known about the (type of) system

Scientific background, rationale: What is known about the (type of) system that is the object of the study (be sure to discuss the use of similar systems for other conditions/diagnoses, if appropriate),

motivation for the study, i.e. what are the reasons for and what is the context for this specific study, from which stakeholder viewpoint is the study performed, potential impact of findings [2]. Briefly justify the choice of the comparator.

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#### Does your paper address subitem 2a-ii? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

See above. We also provide a rationale for this approach in the previous paragraph: "In the past, gait speed studies have typically relied on measurements taken in clinic. The standard method for determining gait involves timing an individual while walking a short, predetermined distance (e.g. 4-6 m). This approach is less than ideal because physical activity, including gait, is influenced by performance biases (e.g., subjects who know they are being observed try to improve their usual performance), as well as

# 2b) In INTRODUCTION: Specific objectives or hypotheses

#### Does your paper address CONSORT subitem 2b? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

The focus of this study does not rely on a specific hypothesis, but rather a demonstration of the approach validity in the most naturalistic environment that is clinically relevant: individuals who are ambulatory and community dwelling. We provide our justification and a brief statement of our results in the following paragraph:

"Here, we show for the first time that smartphones can provide both continuous and aggregate measures of clinically relevant gait and

#### **METHODS**

# 3a) Description of trial design (such as parallel, factorial) including allocation ratio

Does your paper address CONSORT subitem 3a? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this"
to indicate direct quotes from your manuscript), or elaborate on this item by providing additional
information not in the ms, or briefly explain why the item is not applicable/relevant for your study

This was not a clinical trial, and these factors are not relevant for this study.

# 3b) Important changes to methods after trial commencement (such as eligibility criteria), with reasons

#### Does your paper address CONSORT subitem 3b? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Due to the nature of our protocol, there was no need to change methods during this study.

#### 3b-i) Bug fixes, Downtimes, Content Changes

Bug fixes, Downtimes, Content Changes: ehealth systems are often dynamic systems. A description of changes to methods therefore also includes important changes made on the intervention or comparator during the trial (e.g., major bug fixes or changes in the functionality or content) (5-iii) and other "unexpected events" that may have influenced study design such as staff changes, system failures/downtimes, etc. [2].

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#### Does your paper address subitem 3b-i?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We do not address these issues; they were not signification our study.	ant factors for

### 4a) Eligibility criteria for participants

#### Does your paper address CONSORT subitem 4a? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Eligibility criteria were specifically provided:

"Subjects for this case control study were recruited from the University of Nebraska Medical Center (UNMC) Geriatrics Clinic and the Engage Wellness Center, both part of UNMC's Home Instead Center for Successful Aging (HICSA). We assembled two ambulatory cohorts: one of healthy older individuals with no functional impairment (n=22), and one of frail [17] older individuals

#### 4a-i) Computer / Internet literacy

Computer / Internet literacy is often an implicit "de facto" eligibility criterion - this should be explicitly clarified.

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#### Does your paper address subitem 4a-i?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

In our study, we purposely designed the system to function with no user input or effort other than charging the cellphone. Thus, internet/computer literacy, per say, is not a significant factor regarding the interpretation of our results.

4a-ii) Open vs. closed, web-based vs. face-to-face assessments:

Open vs. closed, web-based vs. face-to-face assessments: Mention how participants were recruited (online vs. offline), e.g., from an open access website or from a clinic, and clarify if this was a purely web-based trial, or there were face-to-face components (as part of the intervention or for assessment), i.e., to what degree got the study team to know the participant. In online-only trials, clarify if participants were quasi-anonymous and whether having multiple identities was possible or whether technical or logistical measures (e.g., cookies, email confirmation, phone calls) were used to detect/prevent these.

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#### Does your paper address subitem 4a-ii? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We explicitly describe the protocols for both our face-to-face assessments (questionnaire, physical performance battery), and our remote functional monitoring assessment:

"Self-reported functional status. We used previously validated survey instruments to determine subject self-perceived functional status. These instruments included the (1) functional component of the Late Life Function and Disability Instrument (LLFDI, a comprehensive

#### 4a-iii) Information giving during recruitment

Information given during recruitment. Specify how participants were briefed for recruitment and in the informed consent procedures (e.g., publish the informed consent documentation as appendix, see also item X26), as this information may have an effect on user self-selection, user expectation and may also bias results.

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#### Does your paper address subitem 4a-iii?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We provided no information to subjects during recruitment or afterwards.	

## 4b) Settings and locations where the data were collected

#### Does your paper address CONSORT subitem 4b? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Our settings for data acquisition were the Omaha Nebraska community. This setting is fully clarified throughout the abstract and manuscript.

#### 4b-i) Report if outcomes were (self-)assessed through online questionnaires

Clearly report if outcomes were (self-)assessed through online questionnaires (as common in web-based trials) or otherwise.

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subitem not at all important	0	0	0	0	0	essential

#### Does your paper address subitem 4b-i? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Yes. This facet of the study is fully described in the methods.

"We used previously validated survey instruments to determine subject self-perceived functional status. These instruments included the (1) functional component of the Late Life Function and Disability Instrument (LLFDI, a comprehensive assessment of function and disability for use in community-dwelling older adults that evaluates self-reported difficulty performing 32 physical activities (such as use

#### 4b-ii) Report how institutional affiliations are displayed

Report how institutional affiliations are displayed to potential participants [on ehealth media], as affiliations with prestigious hospitals or universities may affect volunteer rates, use, and reactions with regards to an intervention. (Not a required item – describe only if this may bias results)

1 2 3 4 5
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#### Does your paper address subitem 4b-ii?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We did not display institutional affiliations. Subjects did have to come to the University of Nebraska Medical Center's Home Instead Center for Successful Aging for their questionnaire and physical performance battery testing, and were thus exposed to institutional logos, etc., during that time. However, these subjects also received their health care from the University of Nebraska Medical Center, so we do not suspect any significant bias in one direction or another in performance of questionnaire, performance battery, or ambulatory

# 5) The interventions for each group with sufficient details to allow replication, including how and when they were actually administered

#### 5-i) Mention names, credential, affiliations of the developers, sponsors, and owners

Mention names, credential, affiliations of the developers, sponsors, and owners [6] (if authors/evaluators are owners or developer of the software, this needs to be declared in a "Conflict of interest" section or mentioned elsewhere in the manuscript).

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#### Does your paper address subitem 5-i?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We describe our cell phone vendor, and our coding platform:

"Nokia N79 SmartPhones (White Plains, NY) with an intrinsic three-dimensional accelerometer were used to measure mobility and locomotion for extended periods of time in community dwelling individuals of both cohorts. Acceleration values were sampled and written to memory using custom Python software (Python for S60 v1.9.7, [30]) running on a Symbian S60 V3FP2 OS (San Francisco,

#### 5-ii) Describe the history/development process

Describe the history/development process of the application and previous formative evaluations (e.g., focus groups, usability testing), as these will have an impact on adoption/use rates and help with interpreting results.

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#### Does your paper address subitem 5-ii?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We do not describe previous work but rather provide references to the preceding manuscripts that led to this work:

Schenk AK, Witbrodt BC, Hoarty CA, Carlson Jr, RH, Goulding EH, Potter JF, Bonasera SJ. Cellular Telephones Measure Activity and Lifespace in Community-Dwelling Adults: Proof of Principle. Journal of the American Geriatrics Society. 59(2):345-352, 2011. PMID:21288235.

#### 5-iii) Revisions and updating

Revisions and updating. Clearly mention the date and/or version number of the application/intervention (and comparator, if applicable) evaluated, or describe whether the intervention underwent major changes during the evaluation process, or whether the development and/or content was "frozen" during the trial. Describe dynamic components such as news feeds or changing content which may have an impact on the replicability of the intervention (for unexpected events see item 3b).

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subitem not at all important	0	0	0	0	0	essential

#### Does your paper address subitem 5-iii?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional

We performed no revisions or updating of questionnaires, performance battery, or smartphone software/protocol throughout this trial.

#### 5-iv) Quality assurance methods

Provide information on quality assurance methods to ensure accuracy and quality of information provided [1], if applicable.

information not in the ms, or briefly explain why the item is not applicable/relevant for your study

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subitem not at all important	0	0	0	0	0	essentia

#### Does your paper address subitem 5-iv?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We describe our data quality control measures in the Methods:

"Survey data was scored per instrument instructions. For PROMIS measures, t-scores were determined from raw scores by appropriate conversion tables (available at accessmentcenter.net). Raw acceleration data was low-pass filtered, and baseline acceleration normalized to 1 g over the entire duration of data collection [13]. Our classification algorithm first identified epochs of "forgotten phone" vs

## 5-v) Ensure replicability by publishing the source code, and/or providing screenshots/screen-capture video, and/or providing flowcharts of the algorithms used

Ensure replicability by publishing the source code, and/or providing screenshots/screen-capture video, and/or providing flowcharts of the algorithms used. Replicability (i.e., other researchers should in principle be able to replicate the study) is a hallmark of scientific reporting.

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subitem not at all important	0	0	0	0	0	essential

#### Does your paper address subitem 5-v?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We do not directly provide source code, screenshots, screencapture, or algorithm flowcharts. Of note, our algorithms are described in a secondary manuscript (Kwon et al., as mentioned above). We are willing to provide PyS60 code for persons interested in replicating this study; however, given the marked progress in this field, we suspect that providing this code would be a bit anachronistic; our group has since moved away from the Symbian OS and is now focusing our efforts on Smartphones and the Android

#### 5-vi) Digital preservation

Digital preservation: Provide the URL of the application, but as the intervention is likely to change or disappear over the course of the years; also make sure the intervention is archived (Internet Archive, <a href="webcitation.org">webcitation.org</a>, and/or publishing the source code or screenshots/videos alongside the article). As pages behind login screens cannot be archived, consider creating demo pages which are accessible without login.



#### Does your paper address subitem 5-vi?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We do not address this subitem. We think that the power of this study is not its ability to be exactly replicated with the technology we used, but rather the implication that this technological approach (implemented with available smartphones) has significant clinical relevance.

#### 5-vii) Access

Access: Describe how participants accessed the application, in what setting/context, if they had to pay (or were paid) or not, whether they had to be a member of specific group. If known, describe how participants obtained "access to the platform and Internet" [1]. To ensure access for editors/reviewers/readers, consider to provide a "backdoor" login account or demo mode for reviewers/readers to explore the application (also important for archiving purposes, see vi).



#### Does your paper address subitem 5-vii? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this"

information not in the ms, or briefly explain why the item is not applicable/relevant for your study					
This item is not really applicable to our study.					

### 5-viii) Mode of delivery, features/functionalities/components of the intervention and comparator, and the theoretical framework

to indicate direct quotes from your manuscript), or elaborate on this item by providing additional

Describe mode of delivery, features/functionalities/components of the intervention and comparator, and the theoretical framework [6] used to design them (instructional strategy [1], behaviour change techniques, persuasive features, etc., see e.g., [7, 8] for terminology). This includes an in-depth description of the content (including where it is coming from and who developed it) [1]," whether [and how] it is tailored to individual circumstances and allows users to track their progress and receive feedback" [6]. This also includes a description of communication delivery channels and – if computer-mediated communication is a component – whether communication was synchronous or asynchronous [6]. It also includes information on presentation strategies [1], including page design principles, average amount of text on pages, presence of hyperlinks to other resources, etc. [1].

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#### Does your paper address subitem 5-viii? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We describe our deployment in the Methods:

"Participants were fitted with a pedometer and smartphone. The proper use and correct placement of these devices were demonstrated. Subjects were instructed to wear these devices for the next 24 hours, except when bathing, swimming or sleeping.

Subjects were then briefly videotaped walking on a treadmill (SCIFIT,

#### 5-ix) Describe use parameters

Describe use parameters (e.g., intended "doses" and optimal timing for use). Clarify what instructions or recommendations were given to the user, e.g., regarding timing, frequency, heaviness of use, if any, or was the intervention used ad libitum.

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We discuss in detail that this system re user input; specifically, the ability to ch wear it while they perform their day-to-	equires a minimum of subject narge the smartphone and

5-xi) Report any prompts/reminders used

great detail in the manuscript Methods.

data quality control, classification, and analysis steps are provided in

Report any prompts/reminders used: Clarify if there were prompts (letters, emails, phone calls, SMS) to use the application, what triggered them, frequency etc. It may be necessary to distinguish between the level of prompts/reminders required for the trial, and the level of prompts/reminders

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6a) Completely defined pre-specified primary and secondary outcome measures, including how and

### when they were assessed

#### Does your paper address CONSORT subitem 6a? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Our primary outcomes were functional measurements by smartphone remote monitoring, questionnaire (LLFDI, SAFFE, PROMIS), and physical performance battery ('Timed get up and go', 4 meter walk, figure of eight walk.

### 6a-i) Online questionnaires: describe if they were validated for online use and apply CHERRIES items to describe how the questionnaires were designed/deployed

If outcomes were obtained through online questionnaires, describe if they were validated for online use and apply CHERRIES items to describe how the questionnaires were designed/deployed [9].

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subitem not at all important • • • • essential

#### Does your paper address subitem 6a-i?

Copy and paste relevant sections from manuscript text

We did not apply CHERRIES to our survey results. The instruments themselves were standardized and validated in that particular form, and we did not change any of the items in any manner whatsoever. We did not use validation in an online context as a specific factor; we rather focused on instruments well-validated to measure functional status. Our rationale was that the instruments were administered once, in a quasi-clinical setting that does not really resemble the average individual's on-line experience.

### 6a-ii) Describe whether and how "use" (including intensity of use/dosage) was defined/measured/monitored

Describe whether and how "use" (including intensity of use/dosage) was defined/measured /monitored (logins, logfile analysis, etc.). Use/adoption metrics are important process outcomes that should be reported in any ehealth trial.

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Does your paper address subitem 6a-ii?	
Copy and paste relevant sections from manuscript text	
This factor is not important for our study.	
6a-iii) Describe whether, how, and when qualitative feedback from obtained	
Describe whether, how, and when qualitative feedback from participants with through emails, feedback forms, interviews, focus groups).	vas obtained (e.g.,
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Does your paper address subitem 6a-iii? Copy and paste relevant sections from manuscript text	
We did not have the expertise on our team to perform qualitative studies, so we did not administer a post-study survey.	

# 6b) Any changes to trial outcomes after the trial commenced, with reasons

#### Does your paper address CONSORT subitem 6b? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

This is not applicable to our study.	

### 7a) How sample size was determined

NPT: When applicable, details of whether and how the clustering by care provides or centers was addressed

### 7a-i) Describe whether and how expected attrition was taken into account when calculating the sample size

Describe whether and how expected attrition was taken into account when calculating the sample size.

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#### Does your paper address subitem 7a-i?

Copy and paste relevant sections from manuscript title (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Given the short duration of the study, we did not anticipate attrition to be a significant problem. Our greater problem (as detailed in the methods and results) was identifying persons with functional impairments and relatively intact cognitive status.

# 7b) When applicable, explanation of any interim analyses and stopping guidelines

#### Does your paper address CONSORT subitem 7b? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

There were no interim analyses. Our IRB considered the study minimal risk, and did not require DMSB creation.
8a) Method used to generate the random allocation sequence
NPT: When applicable, how care providers were allocated to each trial group
Does your paper address CONSORT subitem 8a? *  Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study  Not applicable to our study.
8b) Type of randomisation; details of any restriction (such as blocking and block size)
Does your paper address CONSORT subitem 8b? * Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study
Not applicable to our study.

9) Mechanism used to implement the random

# allocation sequence (such as sequentially numbered containers), describing any steps taken to conceal the sequence until interventions were assigned

#### Does your paper address CONSORT subitem 9? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Not applicable to our study.		

# 10) Who generated the random allocation sequence, who enrolled participants, and who assigned participants to interventions

#### Does your paper address CONSORT subitem 10? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Not applicable to our study.	

# 11a) If done, who was blinded after assignment to interventions (for example, participants, care providers, those assessing outcomes) and how

NPT: Whether or not administering co-interventions were blinded to group assignment

#### 11a-i) Specify who was blinded, and who wasn't

Specify who was blinded, and who wasn't. Usually, in web-based trials it is not possible to blind the

interventions

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(this item is usually not relevant for ehealth trials as it refers to similarity of a placebo or sham intervention to a active medication/intervention)

#### Does your paper address CONSORT subitem 11b? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We did not provide a sham intervention.	

## 12a) Statistical methods used to compare groups for primary and secondary outcomes

NPT: When applicable, details of whether and how the clustering by care providers or centers was addressed

#### Does your paper address CONSORT subitem 12a? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We describe our statistical methods in detail in the manuscript Methods:

"We analyzed our smartphone based measures by two-way analysis of variance (ANOVA). Step count, gait speed, and activity count were primary outcomes with cohort (functionally intact vs impaired) and time as factors. Our first models included all interaction terms, and interactions not found to be significant were dropped from later

#### 12a-i) Imputation techniques to deal with attrition / missing values

Imputation techniques to deal with attrition / missing values: Not all participants will use the intervention/comparator as intended and attrition is typically high in ehealth trials. Specify how participants who did not use the application or dropped out from the trial were treated in the statistical analysis (a complete case analysis is strongly discouraged, and simple imputation techniques such as LOCF may also be problematic [4]).

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subitem not at all important	0	0	0	0	0	essentia

#### Does your paper address subitem 12a-i? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Subjects missing a specific data (either survey, performance battery, or functional monitoring data) were dropped from the analysis of that particular metric.

## 12b) Methods for additional analyses, such as subgroup analyses and adjusted analyses

#### Does your paper address CONSORT subitem 12b? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We required no subgroup analysis. We did not perform any analysis adjustments.

# X26) REB/IRB Approval and Ethical Considerations [recommended as subheading under "Methods"] (not a CONSORT item)

#### X26-i) Comment on ethics committee approval

	1	2	3	4	5	
subitem not at all important	0	0	0	0	0	essentia

#### Does your paper address subitem X26-i?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

"The UNMC Institution informed consent							dy. \	Vritte	n		
x26-ii) Outline info Outline informed co Checkbox, etc.?), an ncluded in informed	nsent proced d what infor	dure: mati	s e.c on v	g., if vas	con	sent was c				•	
Outline informed co Checkbox, etc.?), an	nsent proced d what infor d consent do	dure: mati	s e.g on v nent	g., if was s.	con pro\	sent was c				•	

#### Does your paper address subitem X26-ii?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We describe this in our Methods:

"The UNMC Institutional Review Board approved this study. Written informed consent was obtained from all participants"

#### X26-iii) Safety and security procedures

Safety and security procedures, incl. privacy considerations, and any steps taken to reduce the likelihood or detection of harm (e.g., education and training, availability of a hotline)

	1	2	3	4	5	
subitem not at all important	0	0	0	0	0	essential

#### Does your paper address subitem X26-iii?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

This study was deemed minimal risk by our IRB. Our software kept no personally identifying information on smartphones during data collection.

#### **RESULTS**

# 13a) For each group, the numbers of participants who were randomly assigned, received intended treatment, and were analysed for the primary outcome

NPT: The number of care providers or centers performing the intervention in each group and the number of patients treated by each care provider in each center

#### Does your paper address CONSORT subitem 13a? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We provide in the manuscript how many members of each cohort successfully completed data collection for questionnaires, physical performance batteries, and smartphone data collection.

# 13b) For each group, losses and exclusions after randomisation, together with reasons

Does your paper address CONSORT subitem 13b? (NOTE: Preferably, this is shown in a CONSORT flow diagram) \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We provide this information in Figure 1.	
13b-i) Attrition diagram	
Strongly recommended: An attrition diagram (e.g., proportion of participal the intervention/comparator in each group plotted over time, similar to a figures or tables demonstrating usage/dose/engagement.  1 2 3 4 5	
subitem not at all important • • • essential	
Does your paper address subitem 13b-i?	
Copy and paste relevant sections from the manuscript or cite the figure no (include quotes in quotation marks "like this" to indicate direct quotes from elaborate on this item by providing additional information not in the ms, of item is not applicable/relevant for your study	m your manuscript), or
We experienced no attrition in this study due to the short (2-day from start to finish) time requirement for participation	

# 14a) Dates defining the periods of recruitment and follow-up

#### Does your paper address CONSORT subitem 14a? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We performed no follow up. We do not specifically mention recruitment was open; we spent more than 30 months reindividuals for this study.	9
14a-i) Indicate if critical "secular events" fell into the Indicate if critical "secular events" fell into the study period resources available or "changes in computer hardware or In 1 2 3 4 5	l, e.g., significant changes in Internet
subitem not at all important 🧿 🔘 🔘 🔘 essential	
Does your paper address subitem 14a-i?  Copy and paste relevant sections from the manuscript (inc to indicate direct quotes from your manuscript), or elabora information not in the ms, or briefly explain why the item is  There were no "secular events" during the study period.	te on this item by providing additional
14b) Why the trial ended or was  Does your paper address CONSORT subitem 14b? *  Copy and paste relevant sections from the manuscript (ince to indicate direct quotes from your manuscript), or elaboration pot in the manuscript why the item is	clude quotes in quotation marks "like this" Ite on this item by providing additional
information not in the ms, or briefly explain why the item is  This is not applicable.	not applicable/relevant for your study

## 15) A table showing baseline demographic and clinical characteristics for each group

NPT: When applicable, a description of care providers (case volume, qualification, expertise, etc.) and centers (volume) in each group

#### Does your paper address CONSORT subitem 15? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We provide this information in Tab	ble 2.

#### 15-i) Report demographics associated with digital divide issues

In ehealth trials it is particularly important to report demographics associated with digital divide issues, such as age, education, gender, social-economic status, computer/Internet/ehealth literacy of the participants, if known.

	1	2	3	4	5	
subitem not at all important	0	0	0	0	0	essential

#### Does your paper address subitem 15-i? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Most of the subjects we recruited were white, suburban, relatively affluent, with relatively higher degrees of health literacy, social support, and access to high quality healthcare. This feature by itself does not change the fact that our smartphone-based approach can accurately measure important aspects of their at-home functional status; however, it does suggest that future studies may see different degrees of usability decline in subjects with less affluent, less health-literate, less social support status.

16) For each group, number of participants (denominator) included in each analysis and whether the analysis was by original assigned groups

#### 16-i) Report multiple "denominators" and provide definitions

Report multiple "denominators" and provide definitions: Report N's (and effect sizes) "across a range of study participation [and use] thresholds" [1], e.g., N exposed, N consented, N used more than x times, N used more than y weeks, N participants "used" the intervention/comparator at specific pre-defined time points of interest (in absolute and relative numbers per group). Always clearly define "use" of the intervention.

1 2 3 4 5
subitem not at all important O O O essential

#### Does your paper address subitem 16-i? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We address this in Figure 1. All subjects were only studies once.

#### 16-ii) Primary analysis should be intent-to-treat

Primary analysis should be intent-to-treat, secondary analyses could include comparing only "users", with the appropriate caveats that this is no longer a randomized sample (see 18-i).

1 2 3 4 5
subitem not at all important • • • • essential

#### Does your paper address subitem 16-ii?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

This is not a major point, since our study was not randomized to receive this intervention.

# 17a) For each primary and secondary outcome, results for each group, and the estimated effect size and its precision (such as 95% confidence interval)

#### Does your paper address CONSORT subitem 17a? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We provide the following results regarding our primary and secondary outcomes:

"Gait assessment survey instruments and clinical performance measures differentiate between functionally-intact and frail subjects. We chose our questionnaires and performance assessments based on prior validation, current clinical/research use, and face validity. 31 of 32 subjects had sufficient survey data for analysis. As expected,

#### 17a-i) Presentation of process outcomes such as metrics of use and intensity of use

In addition to primary/secondary (clinical) outcomes, the presentation of process outcomes such as metrics of use and intensity of use (dose, exposure) and their operational definitions is critical. This does not only refer to metrics of attrition (13-b) (often a binary variable), but also to more continuous exposure metrics such as "average session length". These must be accompanied by a technical description how a metric like a "session" is defined (e.g., timeout after idle time) [1] (report under item 6a).

1 2 3 4 5
subitem not at all important O O O essential

#### Does your paper address subitem 17a-i?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We provide usability metrics in the results as well:

"During our 24-hour study period, all 22 functionally-intact subjects recorded at least 14 hours of data (mean=17.3 hours; range 14-20 hours) for a total of 380 hours suitable for analysis. All 11 frail subjects recorded at least 9 hours of data (mean=19.9 hours; range 9-24 hours) for a total of 210 hours of which 209 were suitable for analysis (one hour prematurely truncated). There was no significant

### 17b) For binary outcomes, presentation of both

### absolute and relative effect sizes is recommended

#### Does your paper address CONSORT subitem 17b? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Our major outcomes were not binary.	

# 18) Results of any other analyses performed, including subgroup analyses and adjusted analyses, distinguishing pre-specified from exploratory

#### Does your paper address CONSORT subitem 18? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

· · · · · · · · · · · · · · · · · · ·
We did not perform any subgroup analyses. We did not perform and adjustments to our analyses.

#### 18-i) Subgroup analysis of comparing only users

A subgroup analysis of comparing only users is not uncommon in ehealth trials, but if done, it must be stressed that this is a self-selected sample and no longer an unbiased sample from a randomized trial (see 16-iii).

	1	2	3	4	5	
subitem not at all important	0	0	0	0	0	essential

#### Does your paper address subitem 18-i?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional

Not applicable.									
19) All import	tant ha	ırms	or	unint	ende	d eff	fects	in ea	ch
group									
for specific guidance s	see CONSC	RT for	harn	ns)					
nformation not in the ma	s, or briefly					-	-	-	
Our subjects experience	ed no harm	s throu	ghout	the study					
19-i) Include privacy b nclude privacy breaches participants, but also inc and other unexpected/ur	reaches, te ;, technical ; idents such	echnica problem	<b>I pro</b> is. Th	<b>blems</b> iis does no	ot only inc	aches [1	], technic	cal probler	
19-i) Include privacy b nclude privacy breaches participants, but also inc and other unexpected/ur	reaches, to s, technical p idents such nintended in	echnica problem	<b>I pro</b> s. Th ceived . "Uni	<b>blems</b> iis does no	ot only inc	aches [1	], technic	cal probler	
19-i) Include privacy be not not also income and other unexpected/ureffects [2].	reaches, te s, technical p idents such nintended in	echnica problem as pero icidents 3 4	I pro is. Th ceived . "Uni	<b>blems</b> is does no d or real pr intended e	ot only inc	aches [1	], technic	cal probler	

information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Our major technical problem was from inexperience; the investigator responsible for collecting the functional monitoring data did not ensure that there were no critical data on the phones from a previous experiment before assigning them to new subjects.

"Unfortunately, we lost smartphone data from 10 subjects (3 in the functionally intact arm, 7 from the frail arm) due to technologist error. By far, the greatest challenge we encountered during subject

### 19-ii) Include qualitative feedback from participants or observations from staff/researchers

Include qualitative feedback from participants or observations from staff/researchers, if available, on strengths and shortcomings of the application, especially if they point to unintended/unexpected effects or uses. This includes (if available) reasons for why people did or did not use the application as intended by the developers.

	1	2	3	4	5	
subitem not at all important	0	0	0	0	0	essential

#### Does your paper address subitem 19-ii?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

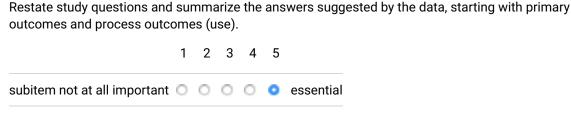
We did not solicit feedback from our study participants.	

#### DISCUSSION

# 22) Interpretation consistent with results, balancing benefits and harms, and considering other relevant evidence

NPT: In addition, take into account the choice of the comparator, lack of or partial blinding, and unequal expertise of care providers or centers in each group

22-i) Restate study questions and summarize the answers suggested by the data, starting with primary outcomes and process outcomes (use)



#### Does your paper address subitem 22-i? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We discuss this in the second paragraph:

"Our study advances the goal of an easy-to-use, robust, accurate, second nature system that measures clinically relevant activity metrics (onsets, durations, step counts, and gait speeds) in different ambulatory populations. This goal is attainable with appropriate hardware and software. For example, over fifty years ago Stunkard [32] showed the feasibility of using pedometers to estimate individual

#### 22-ii) Highlight unanswered new questions, suggest future research

Highlight unanswered new questions, suggest future research.

	1	2	3	4	5	
subitem not at all important	0	0	0	0	0	essential

#### Does your paper address subitem 22-ii?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We discuss this in the final paragraph:

"Given the worldwide ubiquity of smartphone technology, and decreasing costs associated with smartphone ownership, this study suggests that future health care systems should consider leveraging patient smartphones to collect data associated with individual function status (respecting individual privacy and autonomy), develop patient functional 'exemplars', and refine algorithms that not

20) Trial limitations, addressing sources of potential bias, imprecision, and, if relevant, multiplicity of analyses

#### 20-i) Typical limitations in ehealth trials

Typical limitations in ehealth trials: Participants in ehealth trials are rarely blinded. Ehealth trials often look at a multiplicity of outcomes, increasing risk for a Type I error. Discuss biases due to non-use of the intervention/usability issues, biases through informed consent procedures, unexpected events.

1 2 3 4 5
subitem not at all important O O O essential

#### Does your paper address subitem 20-i? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We have an entire section in the discussion focused on study limitations.

### 21) Generalisability (external validity, applicability) of the trial findings

NPT: External validity of the trial findings according to the intervention, comparators, patients, and care providers or centers involved in the trial

#### 21-i) Generalizability to other populations

Generalizability to other populations: In particular, discuss generalizability to a general Internet population, outside of a RCT setting, and general patient population, including applicability of the study results for other organizations

1 2 3 4 5
subitem not at all important O O O essential

#### Does your paper address subitem 21-i?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

This was not a significant focus our our study, and we do not devote any text toward discussing generalizability to other clinical populations. This effort will be one of our future research directions.
populations. This effort will be one of our future research directions.

## 21-ii) Discuss if there were elements in the RCT that would be different in a routine application setting

Discuss if there were elements in the RCT that would be different in a routine application setting (e.g., prompts/reminders, more human involvement, training sessions or other co-interventions) and what impact the omission of these elements could have on use, adoption, or outcomes if the intervention is applied outside of a RCT setting.

	1	2	3	4	5	
subitem not at all important	0	0	0	0	0	essential

#### Does your paper address subitem 21-ii?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We perform this trial in what we hope was the routine setting of subject day-to-day lives, and thus hope that we provide some insight about the feasibility of performing this interaction in a routine fashion.

#### OTHER INFORMATION

### 23) Registration number and name of trial registry

#### Does your paper address CONSORT subitem 23? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Since this was not a clinical trial, we did not perform a registry.	

## 24) Where the full trial protocol can be accessed, if available

#### Does your paper address CONSORT subitem 24? \*

Cite a Multimedia Appendix, other reference, or copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

The information provided in the I	Methods wil	l allow i	nterested
individuals to fully reconstruct ou	ur trial proto	col.	

# 25) Sources of funding and other support (such as supply of drugs), role of funders

#### Does your paper address CONSORT subitem 25? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We provide this information in the acknowledgements:

"Supported by the Alzheimer's Association Everyday Technology for Alzheimer's Care (ETAC) grant 11-206024 (CRH, AKS, SJB), R34MH100460-01 (EHG)"

### X27) Conflicts of Interest (not a CONSORT item)

X27-i) State the relation of in addition to the usual declarate study team towards the system from or identical with the devention.	ation of intere n being evalu	ests ( lated	financial or other , i.e., state if the a	wise), als	so state the re	
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We provide this information i	n the conflict	s of i	nterest section:			
"SJB, AKS, and EJG have re this technological approach ( data collection from discrete	U.S. Patent 9					
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<ul><li>yes, minor changes</li><li>no</li></ul>	ecklist, did y	you	nake changes in	your ma	anuscript? *	

o yes				
O no				
Other:				
	to become involve		•	group? a workshop and writing an
"Explanation and	d Elaboration" docur	ment		
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o no				
Other:				
Any other com	ments or question	ıs on CONSOR	T EHEALTH	
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To generate a r	ecord that you fille	ed in this form	, we recommend	you click submit to generate a PDF of this DF") before you submit it.
When you subn file.	nit your (revised) p	paper to JMIR,	please upload th	ne PDF as supplementary
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Click submit so	we have your ans	swers in our da	atabase!	
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Never submit na	asswords through G	Google Forms		

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